

What is claimed is :

1. An electrochemical cell in which a power generation element is sealed by an outer packaging laminated film, wherein a sealing material is melt-bonded in an entire periphery of a predetermined portion of an outer lead terminal.

2. An electrochemical cell as set forth in claim 1; wherein the sealing material is extruded from the outer packaging laminated film.

3. An electrochemical cell as set forth in claim 1; wherein the sealing material is a modified polyolefin resin.

4. An electrochemical cell as set forth in claim 1; wherein the sealing material is a laminate structure comprising a modified polyolefin resin layer, a resin layer having a higher melting point than that of the modified polyolefin resin, and a polyolefin resin layer.

5. An electrochemical cell as set forth in claim 1; wherein the sealing material is a laminate structure comprising a modified polyolefin resin layer, a resin layer having a higher melting point than that of the modified polyolefin resin, and a modified polyolefin resin layer.

6. An electrochemical cell as set forth in claim 1;
wherein a side face of an outer lead terminal to which the sealing material is melt-bonded is subjected to a surface modification treatment.

7. An electrochemical cell as set forth in claim 6;
wherein the surface modification treatment is a mechanical surface treatment, a chemical surface treatment or covering.

8. An electrochemical cell as set forth in claim 1;
wherein propylene or a modified polypropylene is provided on an innermost surface of the outer packaging laminated film and the sealing material comprises a layer comprising at least a modified polypropylene.

9. An electrochemical cell as set forth in claim 1;
wherein polyethylene or a modified polyethylene is provided on an innermost surface of the outer packaging laminated film and the sealing material comprises a layer comprising at least a modified polyethylene.

10. An electrochemical cell in which a power generation element is sealed by an outer packaging laminated film, wherein a sealing material is melt-bonded to an outer lead terminal and the sealing material goes around a side face of the outer lead terminal.

11. An electrochemical cell as set forth in claim 10;
wherein the sealing material is extruded from the outer
packaging laminated film.

12. An electrochemical cell as set forth in claim 10;
wherein the sealing material is a modified polyolefin resin.

13. An electrochemical cell as set forth in claim 10;
wherein the sealing material is a laminate structure
comprising a modified polyolefin resin layer, a resin layer
having a higher melting point than that of the modified
polyolefin resin, and a polyolefin resin layer.

14. An electrochemical cell as set forth in claim 10;
wherein the sealing material is a laminate structure
comprising a modified polyolefin resin layer, a resin layer
having a higher melting point than that of the modified
polyolefin resin, and a modified polyolefin resin layer.

15. An electrochemical cell as set forth in claim 10;
wherein a side face of an outer lead terminal to which the
sealing material is melt-bonded is subjected to a surface
modification treatment.

16. An electrochemical cell as set forth in claim 15;
wherein the surface modification treatment is a mechanical
surface treatment, a chemical surface treatment or covering.

17. An electrochemical cell as set forth in claim 10;
wherein propylene or a modified polypropylene is provided on an innermost surface of the outer packaging laminated film and the sealing material comprises a layer comprising at least a modified polypropylene.

18. An electrochemical cell as set forth in claim 10;
wherein polyethylene or a modified polyethylene is provided on an innermost surface of the outer packaging laminated film and the sealing material comprises a layer comprising at least a modified polyethylene.

19. A method for producing an electrochemical cell in which a power generation element is sealed by an outer packaging laminated film, comprising the steps of:

forming a sealing material covering portion by melt-bonding the sealing material in an entire periphery of a predetermined portion of an outer lead terminal; and

heat-sealing at least one portion of the sealing material covering portion of the outer lead terminal together with the outer packaging laminated film.

20. A method for producing an electrochemical cell in which a power generation element is sealed by an outer packaging laminated film, comprising the steps of:

forming a sealing material covering portion by melt-bonding the sealing material to an outer lead terminal;

allowing the sealing material to go around a side surface of the outer lead terminal at a temperature of at least a melting point of the sealing material; and

heat-sealing at least one portion of the sealing material covering portion of the outer lead terminal together with the outer packaging laminated film.

21. A method for producing an electrochemical cell in which a power generation element is sealed by an outer packaging laminated film, comprising the steps of:

melt-bonding a sealing material to each of front and rear faces of a predetermined portion of an outer lead terminal connected to the power generation element by applying pressure and heat; and

heating in a vacuum the power generation element thus treated in the foregoing step.